MULTIPLE VIDEO DISPLAY GAMING MACHINE AND GAMING SYSTEM

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MULTIPLE VIDEO DISPLAY GAMING MACHINE AND GAMING SYSTEM 1 2 CROSS-REFERENCE TO RELATED APPLICATION 3 4 This application is related to United States provisional patent application No. 60/470,081, filed May 13, 2003, entitled MULTIPLE VIDEO DISPLAY GAMING MACHINE AND 5 6 GAMING SYSTEM, the entire content of which is hereby incorporated herein by this reference. The Applicant hereby claims the benefit of this earlier pending provisional application under 35 7 8 U.S.C. §119(e). 9 TECHNICAL FIELD OF THE INVENTION 10 The present invention relates to gaming machines that incorporate a video display and to 11 12 systems that include a number of such gaming machines. 13 BACKGROUND OF THE INVENTION 14 15 A number of different games of chance may use electronic gaming machines as an 16 interface through which players may participate in the game. For example, electronic gaming machines may be used to imitate a traditional mechanical slot machine, a poker game, blackjack 17 18 game, or other traditional casino games. Electronic gaming machines may also be used to play

Electronic gaming machines are commonly housed in a large and oftentimes standalone cabinet. The cabinet includes a front side on which is mounted a game video display along with

lottery games, bingo and games similar to bingo, and other games of chance that are not

necessarily related to any traditional casino game.

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player controls. Player controls may include various types of mechanical controls such as switches, buttons, and levers mounted on a forwardly extending ledge below the game video display. Player controls may also be incorporated into the game video display itself using touch screen technology. In addition to the game video display and basic player controls through which the player makes choices or takes action in the game offered through the gaming machine, the gaming machines may also include other player interface devices such as coin or paper currency. acceptors, player card or credit card acceptors, keypads, and other player interface devices. As with traditional mechanical gaming machines, electronic gaming machines also commonly include a number of static graphic displays. In electronic gaming machines, these static graphic displays are mounted above the game video display and/or below the game video display on the front side of the cabinet. These static graphic displays generally provide information regarding the game offered through the gaming machine such as pay tables and other game related information, and include colorful and attractive graphics that are coordinated with the video display shown on the game video display in the course of game play. The static graphic displays may also incorporate ono-static elements such as counters or numeric displays for showing bonus or progressive play information. Video displays may also be incorporated into the static graphic displays to show game related information or information unrelated to the game available at the gaming machine. The graphic display located above the game video display is commonly referred to as the top glass, whereas the graphic display located below the game video display is commonly referred to as the belly glass.

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The look of a particular game to a player at an electronic gaming machine may be referred to as the game presentation. This game presentation includes the animated graphics displayed on the game video display and associated static graphics shown on the top glass and belly glass. For example, a gaming machine providing a game presentation imitating a mechanical slot machine will include graphics displayed on the game video display to imitate a number of reels. In response to a player control, these representations of reels are set in motion using suitable graphics display techniques and are made to appear to stop at some final stop position that indicates the outcome of the play. The top glass and belly glass will commonly have graphics associated with a theme of the imitated slot-type game, and a payout table showing payouts for various reel stop positions. As another example, a gaming machine providing a game presentation imitating a poker game may include animated graphics displayed on the game video display showing a card deal and allowing the player to see the cards they are dealt and perhaps certain cards dealt to the house or other players depending upon the specific type of poker game being portrayed. The top and belly glass graphics which are part of the poker presentation will be related to the poker theme and may also include payout tables for the poker game, game rules, and other information.

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The game presentation of an electronic gaming machine may depict the actual game offered through the gaming machine or some other game of chance. An example of an electronic gaming machine that depicts the actual game being played is a slot machine type game in which the gaming machine itself or some associated piece of equipment executes a program to independently pick the reel stop positions for a given play. A video lottery terminal is an

example of an electronic gaming machine that may depict a game different from the game actually being played to determine a win/loss result. In video lottery terminals, the win/loss result is determined by a predetermined video lottery ticket or data record that is selected from a set of such records in response to a game play request. The game video display of a video lottery terminal may simply show a representation of the predetermined lottery record selected for a given game play request. However, the graphics provided on the game video display may alternatively provide a presentation of a different game such as a presentation including spinning reels imitating a traditional mechanical slot machine. The reel stop position is dictated by the result associated with the predetermined video lottery record selected in response to a game play request at the video lottery terminal.

A given gaming facility that employs electronic gaming machines may include numerous machines to accommodate a large number of players. Each of the gaming machines is generally dedicated to a particular presentation or perhaps a number of related presentations. Although the underlying hardware included in the gaming machine may be fairly generic from one game presentation to the next, the game presentation provided by the gaming machine may be switched only by replacing the top glass and belly glass and perhaps by changing the player controls to accommodate the new game presentation. Thus, changing the game presentation provided by an electronic machine to an entirely different presentation is a substantial undertaking and may be accomplished only by taking the gaming machine out of service for a relatively long period of time. A switch of game presentations commonly requires removing the gaming machine from the casino floor for the changeover. That is, if a casino desires to change from a gaming machine

having a presentation that has proven to be unpopular to a gaming machine having a more popular presentation, essentially the entire gaming machine must be replaced for at least taken and service for a substantial period of time to change the static graphic displays. Because switching game presentations in a gaming machine is so involved, the game presentations offered in a given gaming facility are fairly static. It is noted that even in prior art gaming machines that allow the player to choose from among several different games, portions of the game presentation remains static between the different games available at the gaming machine.

SUMMARY OF THE INVENTION

The present invention includes a gaming machine and a gaming system having a number of individual gaming machines. The invention also encompasses a method of producing a game presentation at a gaming machine and a method of controlling a gaming machine.

A gaming machine according to the invention includes a cabinet having a game video display mounted on a front side of the cabinet. The gaming machine also includes at least one more additional video display mounted on the front side of the cabinet either above or below the game video display. A player control device is also mounted on the front side of the cabinet. This player control device may be separate from the video displays or may be integrated with one or more of the video displays in the form of a touch screen portion of one or more of the video displays.

In one preferred form of the invention the player control device includes a player control touch screen display that forms a portion of a forwardly projecting player control ledge below

the game video display. The player control ledge extends transversely to a plane of the game video display.

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In addition to the player control device, a gaming machine according to the present invention may also include at least one more player interface device such as a player card reader, currency acceptor/validator, or coin acceptor mounted on the cabinet. These player interface devices may be mounted on the front side of the cabinet on the player control ledge or elsewhere.

The additional video displays mounted above and/or below the game video display may be used to display the portion of a game presentation previously displayed by the static displays used in prior art gaming devices. For example, a first additional video display mounted above the game video display may extend across the entire front surface of an upper portion of the gaming device, making up the entire area used for the top glass in prior art gaming machines. Such a video display may be used to display the information and graphics previously displayed by the top glass found in a prior art gaming machine. A second additional video display mounted below the game video display may extend across substantially the entire width of a lower portion of the gaming device, making up the entire area used for the belly glass in prior art gaming machines. Such a second additional video display may be used to display the information and graphics previously displayed by the belly glass of a prior art gaming machine. Using additional video displays rather than static displays provides two important advantages. First, the additional video displays facilitate animated and more interesting graphics and also allow much more information to be displayed. This greatly increases the flexibility of the gaming machine and allows the gaming machine to provide more interesting presentations. The second major

advantage associated with employing additional video displays according to the present invention is that the additional video displays allow the entire game presentation of a particular gaming machine to be modified without modifying the static structure of the gaming machine itself. That is, rather than taking a gaming machine out of service to change out the top and belly glass, and perhaps other static graphics on the gaming machine cabinet, the additional video displays of the present invention may simply be provided with different instructions to display a different presentation. Game presentations may even be changed to meet demand in a particular gaming facility.

A gaming system according to the present invention includes a number of gaming machines, each gaming machine including a single player game presentation arrangement having two or more video displays. The two or more video displays include a game video display and least one additional video display mounted above or below the game video display on a front side of gaming machine cabinet.

In addition to the gaming machines, the gaming system according to the invention also includes a modification controller for selectively issuing presentation switching instructions to the various gaming machines included in the system in response to a control input. The control input may be entered by a player at a particular gaming machine to request a different game presentation. Alternatively or additionally, a gaming machine usage monitoring controller monitors usage of gaming machines in the system and provides the control input based on the usage of the gaming machines. A game presentation server may also be included in the system with associated storage for storing a library of game presentation instruction sets. Each

presentation instruction set is executable for	causing a gaming machine to provide a given game
presentation.	

These and other advantages and features of the invention will be apparent from the following description of the preferred embodiments, considered along with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a view in perspective of a gaming machine embodying the principles of the invention.

Figure 2 is a schematic diagram showing the various components of one preferred form a gaming machine according to the present invention.

Figure 3 is a schematic diagram showing a gaming system embodying the principles of the present invention.

Figure 4 is a process flow chart illustrating a gaming machine control process according to the present invention.

DESCRIPTION OF PREFERRED EMBODIMENTS

Referring to Figure 1, a gaming machine 10 includes a cabinet 11 having a front side generally shown at reference numeral 12. A game video display 14 is mounted in a central portion of the front surface 12 with a player control ledge 16 positioned below the game video display and projecting forwardly from the plane of the game video display. This forwardly

projecting ledge 16 defines a location for one or more player controls as described further below. In addition to the game video display 14, the illustrated form of the invention includes a first additional video display 17 positioned on the front side of cabinet 11 above game video display 14, and a second additional video display 18 mounted on the front side of the cabinet below the game video display. Each of these displays, the game video display 14, first additional video display 17, and second additional video display 18 participate in the operation of game machine 10 to provide a presentation for a particular game. It is noted that the gaming machine 10 is shown in an operating position in Figure 1, and that descriptions of positions above or below a given element of the gaming machine are made with reference this operating position.

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Gaming machine 10 illustrated in Figure 1, includes a player control touch screen display 15 that defines a portion of the player control ledge extending forwardly from the plane of game video display 14. With this separate player control touch screen, the illustrated gaming machine 10 includes a total of four different video displays that together provide the game presentation in the course of operation of the gaming machine. In addition to the separate player control touch screen 15, gaming machine 10 also includes mechanical player control or input buttons 19 mounted on ledge 16. Other forms of the invention may include switches, joysticks, or other player control on input devices mounted on ledge 16. However, all of the traditional player control inputs from devices such as switches, buttons, and pointer controls, can be provided through the illustrated touch screen display/player control device 15. Using the separate player control touch screen display 15 in gaming machine 10 allows the player controls to be modified readily from one game presentation to the next and even within a single presentation.

It will be appreciated that gaming machines may also include player interface devices in addition to devices that are considered player controls or inputs for use in playing a particular game. For example, gaming machines commonly include a player card reader, a voucher or ticket reader/issuer, a currency acceptor/validator, and/or coin or token acceptors/dispensers. The form of the invention shown in Figure 1 includes these types of additional player interface devices on a lower portion of the cabinet 11 generally in the plane of the lower or second additional video display 18. These additional player interface devices 20 are located around the periphery of second additional video display 18. However, other forms of the invention may configure one or more separate displays to make up the overall display 18 with interface devices 20 or even mechanical player controls mounted within the area of the second additional video display. This use of apparent openings in the video display also applies to the player control video display 15 and other video displays on machine 10.

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Although Figure 1 shows four separate video displays that combine to produce the game presentation for gaming machine 10, it will be appreciated that fewer video displays may be used. For example, a gaming machine according to the invention may include game video display 14 and only a single additional video display that may be mounted above or below the game video display and take up the entire area of the gaming machine front surface previously reserved for a static top glass or belly glass display. Also, although each video display shown in Figure 1 is indicated as being a single display, it will be appreciated that each video display 14, 15, 17, and 18 shown in Figure 1 may in fact be made up of two or more separate displays that combine to provide what appears to the user to be a single display. It will also be appreciated that many

different types of video displays may be used for the displays in the present invention including cathode ray tubes, liquid crystal displays, plasma displays, or any other type of video display currently known or that may be developed in the future.

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Figure 2 provides a block diagram showing all the components of gaming machine 10 (shown in Figure 1) including the displays 14, 15, 17, and 18. Gaming machine 10 includes a central processing unit (CPU) 25 along with random access memory 26 and nonvolatile memory or storage device 27. All of these devices are connected on a common system bus 28 with an audio interface device 29, communications interface 30, and a serial interface 31. Two graphics processors 35 and 36 are also connected on the common bus 28 and are connected to drive the displays mounted on cabinet 11 (shown in Figure 1). Graphics processor 35 controls game video display 14 and player control display 15 while graphics processor 36 controls first additional display 17 and second additional display 18. The system shown in Figure 2 also includes a touch screen controller 37 connected to system bus 28. Touch screen controller 37 is also connected to receive signals from touch screen elements associated with each display, 14, 15, 17, and 18. It will be appreciated that the touch screen elements themselves comprise thin films that are secured over the respective video display. These touch screen elements are not illustrated or referenced separately in the figures. It will also be appreciated that touch screen elements may not be associated with each display, although most preferred forms of gaming machines according to the present invention will have a touch screen element associated with at least game video display 14 and player control video display 15.

All of the elements 25, 26, 27, 28, 29, 30, and 31 shown in Figure 2 are elements commonly associated with a personal computer. These elements are preferably mounted on a standard personal computer chassis and housed in a standard personal computer housing which is itself mounted in cabinet 11 shown in Figure 1. Those familiar with personal computers and the various standard personal computer elements shown in Figure 2 will appreciate that many variations on this illustrated structure may be used within the scope of the present invention. For example, since serial communications are commonly employed from a touch screen element secured over a video display, a system according to the invention may not include a separate touch screen controller 37. Rather, communications from the touch screen elements may be accommodated through any suitable peripheral interface such as a USB controller or a IEEE 1394 controller. Thus, the connections shown from touch screen controller 37 to the various displays may alternatively run from the displays (or more precisely the touch screen elements associated with the displays) to the serial interface 31 or any other suitable interface. Numerous other variations in the gaming machine internal structure and system may be used in accordance with the principles of the present invention.

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It will also be appreciated that graphics processors are also commonly a part of modern personal computer systems. Although two separate graphics processors 35 and 36 are shown for controlling the four displays included in this form of the invention, it will be appreciated that a separate graphics processor may be included in the system for each particular display. It is also possible for a single graphics processor to control all of the video displays mounted on gaming machine 10.

CPU 25 executes game software which ultimately controls the entire gaming machine 10
including the presentation provided through the video displays. CPU 25 also executes software
related to communications handled through communications interface 30, and software related to
various peripheral devices such as those connected to the system through audio interface 29,
serial interface 31, and touch screen controller 37. CPU 25 may also execute software to perform
accounting functions associated with game play. Random access memory 26 provides memory
for use by the central processing unit in executing its various software programs while the
nonvolatile memory or mass storage 27 provides storage for programs not in use or for other data
generated or used in the course of gaming machine operation. Communications interface 30
provides an interface to other components of a gaming system that may be involved in game
play. For example, some gaming machines rely on remote processing units for providing
accounting functions associated with game play and also for providing game results. U.S. patent
No. 6,524,184 provides an example of a gaming system which includes player terminals and
remote systems for providing results from predetermined game play records stored at the remote
systems. Even where the results of game play are determined at the gaming machine itself,
gaming machines are commonly interfaced with systems for accounting purposes and control
purposes, and communications interface 30 provides an interface for such communications.
Communications interface 30 also provides an interface to a processor that controls presentation
changes at the gaming machine as will be described below with reference to Figure 3.

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Audio interface 29 provides an interface for an audio system that may be included in gaming machine 10. Serial interface 31 provides an interface for serial devices such as player

controls not incorporated in any touch screen display, and possibly the touch screen elements themselves, and other player interface devices such as currency acceptors/validators, a player card reader, voucher readers/printers, and coin/token drops. Commonly, a single serial interface device is used to communicate with a number of serial devices through a suitable serial protocol such as USB or IEEE 1394. However, it will be appreciated that additional serial interfaces may be used depending upon the nature of the serial protocols used for communications and the number of serial devices included in gaming machine 10.

It will be appreciated that other basic components will be included in gaming machine 10 such as a power supply, cooling systems for the various processors, audio amplifiers and speakers, and other devices that are common in gaming machines. These additional devices are omitted from the drawings so as not to obscure the present invention in unnecessary detail.

Referring now to Figure 3, a number of gaming machines 10 are included in a gaming system 40 according to the present invention. The eight gaming machines 10 shown in Figure 3 only for purposes of example are divided into three separate groups indicated by dashed lines 41, 42, and 43. Each gaming machine 10 is shown connected to a network hub or switch 45. A separate processing device 47 is also shown connected to hub/switch 45. This separate processing device is used according to the invention to implement a presentation server 48 with associated presentation storage 49, a modification controller 50, and a usage monitoring arrangement 51. This separate processing device 47 may comprise a single computer executing software instructions to provide the communications and functions for presentation server 48,

presentation storage 49, modification controller 50, and usage monitoring arrangement 51 described further below.

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It will be appreciated by those skilled in the art of computer networks and computer system communications that the arrangement illustrated in Figure 3 provides only a single example of a network arrangement that may be used to implement the present invention. The illustrated example would be appropriate for direct TCP/IP communications with the individual gaming machines. Other forms of the invention may use serial communications with gaming machines and may also include a suitable serial controller interposed between one or more gaming machines and hub/switch 45. The present invention is generally not limited to any particular communications arrangements or protocols for providing communications between the respective gaming machines 10 and the processor 47. It will also be appreciated that the processing functions described below for components 48, 49, 50, and 51 may be distributed to different processors and are not necessarily performed by a single processor indicated at reference numeral 47. In particular, each gaming machine 10 may include sufficient processing capability and operational software to perform the functions of the modification controller 50, and usage monitoring arrangement 51. That is, the gaming machine 10 itself may monitor gaming machine usage conditions and switch presentations based upon the detected conditions according to some predetermined standard, formula, or logic. For example, a gaming machine 10 according to the invention may be configured to switch presentations on its own accord in the event no player has played a game on the gaming machine for a given period of time.

The three different groups of gaming machines 10 are shown to illustrate that a gaming system according to the present invention at a given gaming facility may include different groups of gaming machines 10 with each different group including gaming machines controlled or configured to provide a particular game presentation. The number of gaming machines 10 shown in Figure 3 is shown only for purposes of example and it will be appreciated that a gaming system 40 according to the invention may include large numbers gaming machines all connected for communications with one or more processors used to implement presentation server 48, modification controller 50, and usage monitoring arrangement according to the invention.

Modification controller 50 is implemented in software instructions executed by processor 47 and operates to selectively issue presentation switching instructions to the various gaming machines 10 included in gaming system 40. These presentation switching instructions are executed at the receiving gaming machine 10 to cause the gaming machine to switch from a first game presentation to a second game presentation.

In one form of the invention, modification controller 50 issues presentation switching instructions in response to a control signal derived from a presentation change request that a player inputs at a respective one of the gaming machines 10. Alternatively to issuing presentation switching instructions in response to a player request, gaming system 40 includes arrangements for issuing presentation switching instructions automatically. In the form of the invention illustrated in Figure 3 for example, a usage monitoring arrangement 51 implemented in software executed by processor 47 monitors the usage of the various gaming machines 10 included in system 40. Upon detecting certain predetermined usage conditions, monitoring

arrangement 51 may issue a control signal to modification controller 50 which responds by issuing presentation switching instructions to one or more gaming machines 10. For example, where the usage information indicates that all or most of the gaming machines at a facility offering a particular game presentation are in use while gaming machines providing another game presentation are not in use, usage monitoring arrangement 51 may provide a control signal or signals to cause modification controller 50 to issue presentation switching instructions to unused gaming machines offering the less popular game presentation. These switching instructions would cause the receiving gaming machines 10 to switch to provide the more popular game presentation. Of course, the issuance of instructions to switch from one game presentation to another in a particular gaming machines may not be fully automated and may require certain operator intervention within the scope of the invention.

Presentation server 48 and its associated storage 49 provide a repository of a number of different game presentation instruction sets. Each game presentation instruction set is executable at a gaming machine 10 to provide a particular game presentation at the gaming machine. In some forms of the invention of the issuance of a presentation switch instruction from modification controller 50 is made in conjunction with a transfer of a given presentation instruction set from presentation server storage 49 to the particular gaming machine or machines 10 receiving the switch command. Presentation server 48 and its associated storage 49 facilitate storing a large number of different game presentations which may be downloaded to the various gaming machines 10 as needed. In other forms of the invention, however, each gaming machine 10 may include sufficient storage capacity (in mass storage or non-volatile memory 27 shown in

Figure 2) to store a large number of game presentation instruction sets. Storing game presentation instruction sets at the gaming machines obviates the need for a presentation server 48 and storage 49 respectively at a central location such as processor 47. In cases where the game presentation instruction sets are prestored on gaming machines 10, the presentation switching instruction from modification controller 50 simply causes the gaming machines to load and execute a particular one of the presentation instruction sets identified in the switching instruction.

As shown in Figure 4, a process of controlling gaming machines according to the invention includes monitoring for switch conditions or switch control signals as shown at process block 55. The switch conditions may be based on usage as monitored by usage monitoring arrangement 51 (shown in Figure 3), or some other conditions. Switch control signals may be derived from inputs by facility management through a suitable interface or from inputs made by players at the gaming machines 10. If switch conditions are met or if a switch control signal is present as indicated at decision block 56, the process includes issuing a presentation switch instruction or command as indicated at block 57. If the result of decision block 56 is negative, the process returns to block 55 and monitors for an input. It will be appreciated that the process may be represented without any decision block as shown at 56. Such an alternate representation of the process would include a process block that simply issues a presentation switch instruction or command in response to the detected switch conditions or switch control signal.

The presentation switch instruction issued at process block 57 will be directed to at least one recipient gaming machine 10 shown in Figures 1 through 3 using the applicable

communications protocol, and may include data identifying the game presentation to be used at the gaming machine or the data or instruction set for the presentation itself. In this latter case, the data or instruction set itself may be directed from presentation server storage 49 shown in Figure 3.

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For purposes of example, assume that the gaming machines 10 in group 41 provides a game presentation A, each of the gaming machines in group 42 provides a different game presentation B, and each gaming machine 10 in group 43 provides yet a different presentation C. In this example, assume that presentation A happens to be particularly popular at one point in time and that all of the gaming machines providing that presentation, that is, all gaming machines 10 in group 41, are in use. Further assume that at least some of the machines providing the C presentation, that is, the gaming machines 10 in group 43 are not in use. It may be desirable in that situation to have more gaming machines 10 in the gaming facility to switch over to presentation A from presentation C. According to the present invention, the switch in game presentations is accomplished by communicating a presentation switching instruction from modification controller 50, and perhaps a set of game presentation instructions from server 48/storage 49, to one or more of the unused gaming machines 10 in group 43. The switching instruction will cause the receiving gaming machine 10 to switch presentations to the desired presentation. The new game presentation will include different graphics for the game video display 14 associated with the gaming machine as shown in Figures 1 and 2, and usually different graphics for each additional video display such as displays 15, 17, and 18 shown in Figures 1 and 2.

This example illustrates how the additional video displays according to the invention such as displays 15, 17, and 18 shown in Figures 1 and 2 allow switching game presentations without taking the gaming machine 10 out of service for any extended period. Furthermore, the present invention enables the game presentations offered at a given gaming facility to be modified to meet demand and to optimize gaming machine usage.

The above described preferred embodiments are intended to illustrate the principles of the invention, but not to limit the scope of the invention. Various other embodiments and modifications to these preferred embodiments may be made by those skilled in the art without departing from the scope of the following claims. For Example, although the invention contemplates switching from one game presentation to an entirely different game presentation, the switching may be between somewhat related game presentations, or presentations having elements in common with the earlier presentation at the gaming machine. Furthermore, the invention may be implemented in a data processing environment in which more processing tasks are performed at a central processing device rather than the individual gaming machine CPUs. The present invention encompasses these more centralized data processing implementations.